QUALITY ASSURANCE REPORT/QUALITY CONTROL REPORT

CE/QA/PR/629/2022-23, DATE: 03/10/23		
Name of Work	:	Package 2 Consists of 3 Works (Byatarayanapura Division) 1.Improvements to roads and drains at Kogilu and surrounding area in Ward No 05 Byatarayanapura sub division. 2.Improvements to roads and drains at Agrahara and surrounding area in Ward No 05 Byatarayanapura sub division. 3.Improvements to roads and drains at Hegdenagar and surrounding area in Ward No 06 Byatarayanapura sub division. Estimated cost 1100.00 Lakhs
Job Code	:	005-20-000074
Bill No.& Amount	:	**5th & Final Bill.Rs.2,06,40,000.00 (Including GST)**
Name of Agency	:	**M/S Benaka Developers and Projects Pvt Ltd**
Type of Test Performed	:	Bitumen Content and Gradation test as per Table 500.10&Table 500.17 MoRTH V Revision.
Materials on which Tests Was Performed	:	1.Dense Bituminous Concrete (Grade II) 2.Bituminous Concrete (Grade II)
Officers present during inspection	:	1. Sri. Mahantesh AE- Ward No 06 2. Smt. L.Varalakshmi EE-Quality Assurance 3. Sri .K.M.Yadukrishna AEE-Quality Assurance
Project Management Consultants	:	TEJUS CONSULTANTS Bangalore
Observations	:	➢ Bitumen content & Gradation test was conducted by Project Management Consultants representative at random locations in presence of AE(Ward No.06) along with EE QA division& AEE QA division. ➢ The Bitumen content & Gradation Test were conducted for DBM (Grade II) & BC (Grade-II). The readings and results are recorded by the PMC consultants. ➢ The readings of Bitumen Content & Gradation Test results are tabulated and analysis of test results done by PMC is here by furnished. ➢ The location wise test results are reproduced in the tables shown below.
Test Locations	:	**Location 1: Shabari nagar 1st cross road (opp to H No #1 kantida, Opp to H No #12 Ismail residency, 1st cross road)** **Location 2: Hegdenagar Main Road (Inland Imad, Green supermarket, Masha Allah City Clinic)** **Location 3: Hegde nagar 1st cross road**

Table-01: Bitumen Content and gradation Test Results for Shabari nagar 1st cross road at random locations

DBM- (GRADE-II)

Landmark/Location	opp to H No #1 kantida	Opp to H No #12 Ismail residency	1st cross road
Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	875	762	751
2. final weight of sample after extraction (gms) w2	836	728	718
3. Initial weight of filter paper (gms) w3	4	4	4
4. Final weight of filter paper (gms) w4	5	5	5
5.Increased weight of filter paper (gms) w5=(w4-w3)	1	1	1
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	40.00	35.00	34.00
7. Bitumen content in % (w6/w1)x100	4.57	4.59	4.53
8.Average		4.56	

SIEVE SIZE mm	Trail 1				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
37.5	0.0	0.0	0.00	100.00	100
26.5	70.0	70.0	8.37	91.63	90 - 100
19	80.0	150.0	17.94	82.06	71 - 95
13.2	135.0	285.0	34.09	65.91	56 - 80
4.75	170.0	455.0	54.43	45.57	38 - 54
2.360	108.0	563.0	67.34	32.66	28 - 42
0.300	158.0	721.0	86.24	13.76	7 - 21
0.075	95.0	816.0	97.61	2.39	2 - 8

SIEVE SIZE mm	Trail 2				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
37.5	0.0	0.0	0.00	100.00	100
26.5	58.0	58.0	7.97	92.03	90 - 100
19	72.0	130.0	17.86	82.14	71 - 95
13.2	120.0	250.0	34.34	65.66	56 - 80
4.75	155.0	405.0	55.63	44.37	38 - 54
2.360	100.0	505.0	69.37	30.63	28 - 42
0.300	140.0	645.0	88.60	11.40	7 - 21
0.075	64.0	709.0	97.39	2.61	2 - 8

SIEVE SIZE mm	Trail 3				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
37.5	0.0	0.0	0.00	100.00	100
26.5	61.0	61.0	8.50	91.50	90 - 100
19	85.0	146.0	20.33	79.67	71 - 95
13.2	115.0	261.0	36.35	63.65	56 - 80
4.75	140.0	401.0	55.85	44.15	38 - 54
2.360	92.0	493.0	68.66	31.34	28 - 42
0.300	140.0	633.0	88.16	11.84	7 - 21
0.075	40.0	673.0	93.73	6.27	2 - 8

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Table-02: Bitumen Content and gradation Test Results for Shabari nagar 1st cross road at random locations

BC- (GRADE-II)

Landmark/Location	opp to H No #1 kantida	Opp to H No #12 Ismail residency	1st cross road
Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	716.00	678.00	643.00
2. final weight of sample after extraction (gms) w2	678.00	642.00	609.00
3. Initial weight of filter paper (gms) w3	4.00	4.00	4.00
4. Final weight of filter paper (gms) w4	5.00	5.00	5.00
5.Increased weight of filter paper (gms) w5=(w4-w3)	1.00	1.00	1.00
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	39.00	37.00	35.00
7. Bitumen content in % (w6/w1)x100	5.45	5.46	5.44
8.Average		5.45	

SIEVE SIZE mm	Trail 1 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0	0	0.00	100.00	100
13.2	62	62.0	9.14	90.86	90-100
9.5	101	163.0	24.04	75.96	70-88
4.75	135	298.0	43.95	56.05	53-71
2.36	80	378.0	55.75	44.25	42-58
1.18	45	423.0	62.39	37.61	34-48
0.6	52	475.0	70.06	29.94	26-38
0.3	65	540.0	79.65	20.35	18-28
0.15	30	570.0	84.07	15.93	12-20
0.075	50	620.0	91.45	8.55	4-10

SIEVE SIZE mm	Trail 2 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0	0	0.00	100.00	100
13.2	35	35.0	5.45	94.55	90-100
9.5	65	100.0	15.58	84.42	70-88
4.75	118	218.0	33.96	66.04	53-71
2.36	92	310.0	48.29	51.71	42-58
1.18	80	390.0	60.75	39.25	34-48
0.6	40	430.0	66.98	33.02	26-38
0.3	36	466.0	72.59	27.41	18-28
0.15	50	516.0	80.37	19.63	12-20
0.075	70	586.0	91.28	8.72	4-10

SIEVE SIZE mm	Trail 3 Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0	0	0.00	100.00	100
13.2	60	60.0	9.85	90.15	90-100
9.5	72	132.0	21.67	78.33	70-88
4.75	88	220.0	36.12	63.88	53-71
2.36	98	318.0	52.22	47.78	42-58
1.18	59	377.0	61.90	38.10	34-48
0.6	65	442.0	72.58	27.42	26-38
0.3	50	492.0	80.79	19.21	18-28
0.15	35	527.0	86.54	13.46	12-20
0.075	40	567.0	93.10	6.90	4-10

Table-03: Bitumen Content and gradation Test Results for Hegdenagar Main Road at random locations
DBM- (GRADE-II)

Landmark/Location	Inland Imad
Description	Trial 1
1.Initial weight of sample (gms) w1	605
2. final weight of sample after extraction (gms) w2	578
3. Initial weight of filter paper (gms) w3	4.00
4. Final weight of filter paper (gms) w4	5.00
5.Increased weight of filter paper (gms) w5=(w4-w3)	1.00
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	28.00
7. Bitumen content in % (w6/w1)x100	4.63

SIEVE SIZE mm	Trail 1				Requirement as per MORTH table 500.10
	Weight Retained, gm	Cumulative Weight Retained	Cumulative %Retained	Cumulative% Passing	
37.5	0.0	0.0	0.00	100.00	100
26.5	42.0	42.0	7.27	92.73	90 - 100
19	95.0	137.0	23.70	76.30	71 - 95
13.2	102.0	239.0	41.35	58.65	56 - 80
4.75	85.0	324.0	56.06	43.94	38 - 54
2.360	82.0	406.0	70.24	29.76	28 - 42
0.300	76.0	482.0	83.39	16.61	7 - 21
0.075	60.0	542.0	93.77	6.23	2 - 8

Table-04: Bitumen Content and gradation Test Results for Hegdenagar Main Road at random locations
BC- (GRADE-II)

Landmark/Location	Inland Imad	Green supermarket	Masha Allah City Clinic
Description	Trial 1	Trail 2	Trail 3
1.Initial weight of sample (gms) w1	448.00	607.00	689.00
2. final weight of sample after extraction (gms) w2	424.00	575.00	652.00
3. Initial weight of filter paper (gms) w3	4.00	4.00	4.00
4. Final weight of filter paper (gms) w4	5.00	5.00	5.00
5.Increased weight of filter paper (gms) w5=(w4-w3)	1.00	1.00	1.00
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	25.00	33.00	38.00
7. Bitumen content in % (w6/w1)x100	5.58	5.44	5.52
8.Average		5.51	

SIEVE SIZE mm	Trail 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.00	100.00	100
13.2	37	37.0	8.73	91.27	90-100
9.5	35	72.0	16.98	83.02	70-88
4.75	68	140.0	33.02	66.98	53-71
2.36	85	225.0	53.07	46.93	42-58
1.18	50	275.0	64.86	35.14	34-48
0.6	32	307.0	72.41	27.59	26-38
0.3	36	343.0	80.90	19.10	18-28
0.15	20	363.0	85.61	14.39	12-20
0.075	25	388.0	91.51	8.49	4-10

SIEVE SIZE mm	Trail 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.00	100.00	100
13.2	36	36.0	6.26	93.74	90-100
9.5	60	96.0	16.70	83.30	70-88
4.75	106	202.0	35.13	64.87	53-71
2.36	50	252.0	43.83	56.17	42-58
1.18	65	317.0	55.13	44.87	34-48
0.6	55	372.0	64.70	35.30	26-38
0.3	60	432.0	75.13	24.87	18-28
0.15	55	487.0	84.70	15.30	12-20
0.075	45	532.0	92.52	7.48	4-10
SIEVE SIZE mm	Trail 3				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.00	100.00	100
13.2	55	55.0	8.44	91.56	90-100
9.5	58	113.0	17.33	82.67	70-88
4.75	95	208.0	31.90	68.10	53-71
2.36	80	288.0	44.17	55.83	42-58
1.18	85	373.0	57.21	42.79	34-48
0.6	95	468.0	71.78	28.22	26-38
0.3	50	518.0	79.45	20.55	18-28
0.15	35	553.0	84.82	15.18	12-20
0.075	50	603.0	92.48	7.52	4-10

Table-05: Bitumen Content and gradation Test Results for Hegde nagar 1st cross road at random locations BC- (GRADE-II)

Description	Trial 1	Trail 2
1.Initial weight of sample (gms) w1	497.00	662.00
2. final weight of sample after extraction (gms) w2	471.00	627.00
3. Initial weight of filter paper (gms) w3	4.00	4.00
4. Final weight of filter paper (gms) w4	5.00	5.00
5.Increased weight of filter paper (gms) w5=(w4-w3)	1.00	1.00
6. Weight of Bitumen Extracted (gms). w6=w1-w2+w5	27.00	36.00
7. Bitumen content in % (w6/w1)x100	5.43	5.44
8.Average	5.435	

SIEVE SIZE mm	Trail 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	
19.00	0	0	0.00	100.00	100
13.2	34	34.0	7.22	92.78	90-100
9.5	71	105.0	22.29	77.71	70-88
4.75	90	195.0	41.40	58.60	53-71
2.36	68	263.0	55.84	44.16	42-58
1.18	35	298.0	63.27	36.73	34-48
0.6	34	332.0	70.49	29.51	26-38
0.3	32	364.0	77.28	22.72	18-28
0.15	40	404.0	85.77	14.23	12-20
0.075	42	446.0	94.69	5.31	4-10

SIEVE SIZE mm	Trail 2				
	Weight Retained, gm	Cumulative Weight Retained	%Cumulative Retained	% Passing	Requirement as per MORTH table 500.17
19.00	0	0	0.00	100.00	100
13.2	38	38.0	6.06	93.94	90-100
9.5	72	110.0	17.54	82.46	70-88
4.75	93	203.0	32.38	67.62	53-71
2.36	81	284.0	45.30	54.70	42-58
1.18	55	339.0	54.07	45.93	34-48
0.6	60	399.0	63.64	36.36	26-38
0.3	65	464.0	74.00	26.00	18-28
0.15	60	524.0	83.57	16.43	12-20
0.075	55	579.0	92.34	7.66	4-10

Conclusion:

The file containing **5th & Final** has been submitted for the above work to QA department on 11.07.2023 requesting for spot inspection. Engineers of QA/QC division have visited the work spot on 24.07.2023 & 23.09.2023

PMC team was instructed to assess the Gradation & Bitumen content test for DBM (Grade II) &BC (Grade-II) on Asphalted road . The Bitumen Content and Gradation Tests were conducted by PMC in presence of engineer in charge of work.

From the test results furnished by PMC, it is concluded that the results of the samplescollected are in accordance with the standards/ specifications mention in the IRC codes. However, the results submitted by the PMC have been reproduced here with for further needful action. The results checked by QA/QC relates only for item tested in the particular location randomly.

Engineer in charge of work shall ensure that work executed as per this bill is not claimed in any other bill /work or else Engineer in charge of work shall be held responsible.

Further, QA/QC directs the Engineer in-charge of the work that all materials used for the work shall be inspected, tested and accepted as per the relevant specifications before incorporation in the work. The frequencies and methods of sampling and testing materials, including those required for definite purpose and not covered by MORT&H specifications shall be in accordance to the relevant IRC or BIS or AASHTO/ASTM/BS standards in order of priority.

All materials or work not conforming to the requirements of the specifications shall be considered unacceptable and rejected. The unacceptable materials or works that are rejected shall be immediately removed unless the defects are corrected and approved by the engineer in-charge of work.

The concerned Engineer in charge of the work shall follow the direction issued by Chief Commissioner Letter number dated 01.08.2022 and 14,09.2022 and take necessary action as appropriate in accordance with the law.

Note: -

This report by QA/QC is pertaining to the work carried out in **5th & Final Bill** only.

Engineer in charge of work shall display details of work, work code, cost of project, start and completion date, and information of Engineer in charge of work with contact numbers at work spot.

Engineer in charge of work and Agency shall ensure that if any damages or defects occur pertaining to the executed work within the Defect Liability period (DLP), The same shall be rectified immediately on top priority without fail.

Engineer in charge of work shall ensure that any changes/ modification/change in location in the sanctioned estimate to be got approved by competent authority.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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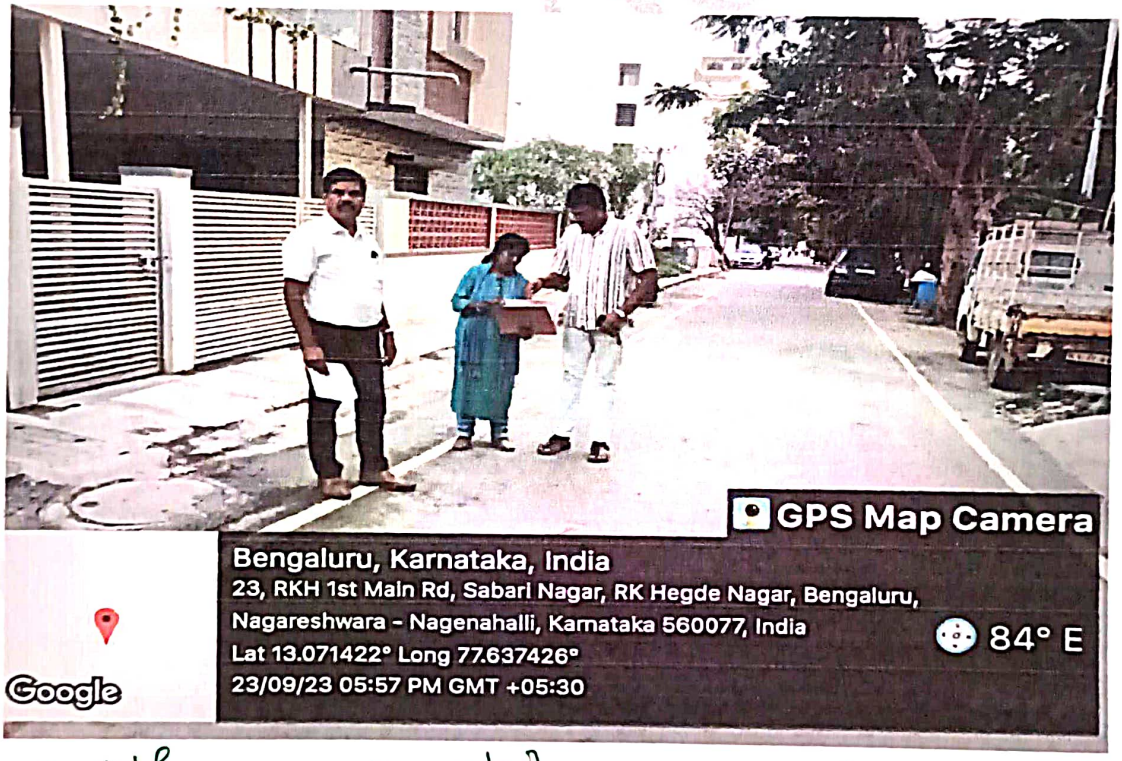
ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ



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ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ಉಪ-ವಿಭಾಗ –
ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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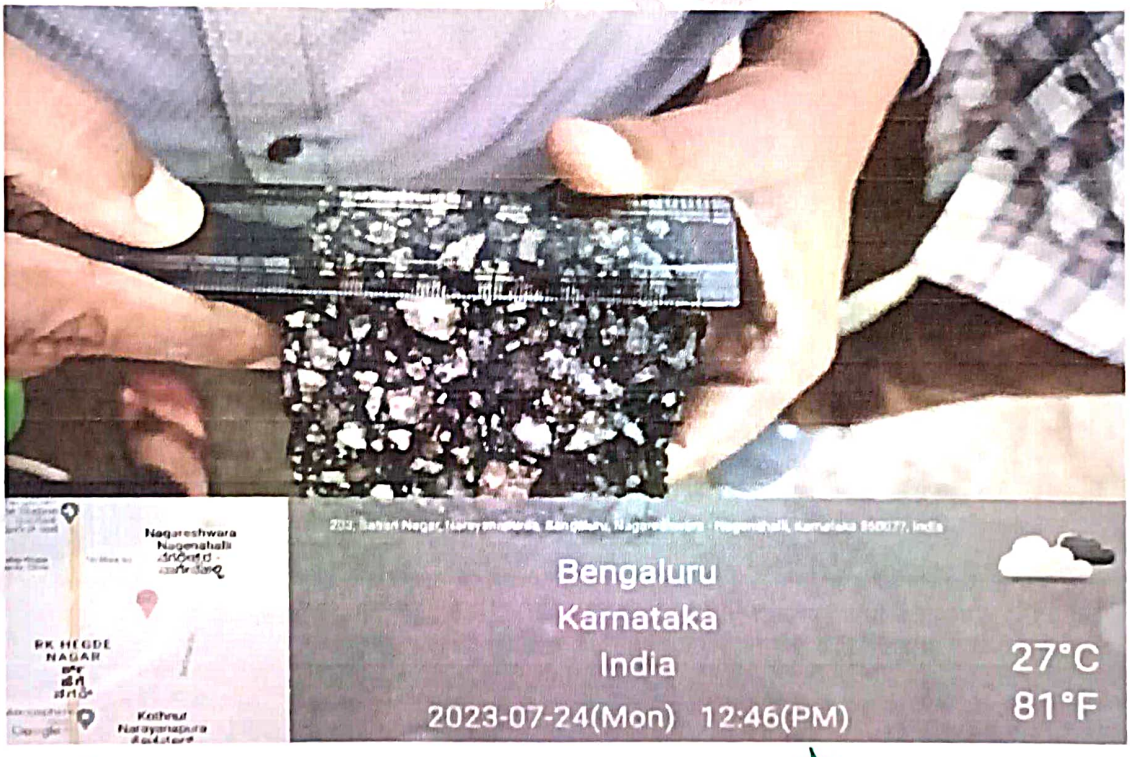
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ



27/9/23

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Bengaluru
Karnataka
India
2023-07-24(Mon) 12:42(PM)
27°C
81°F

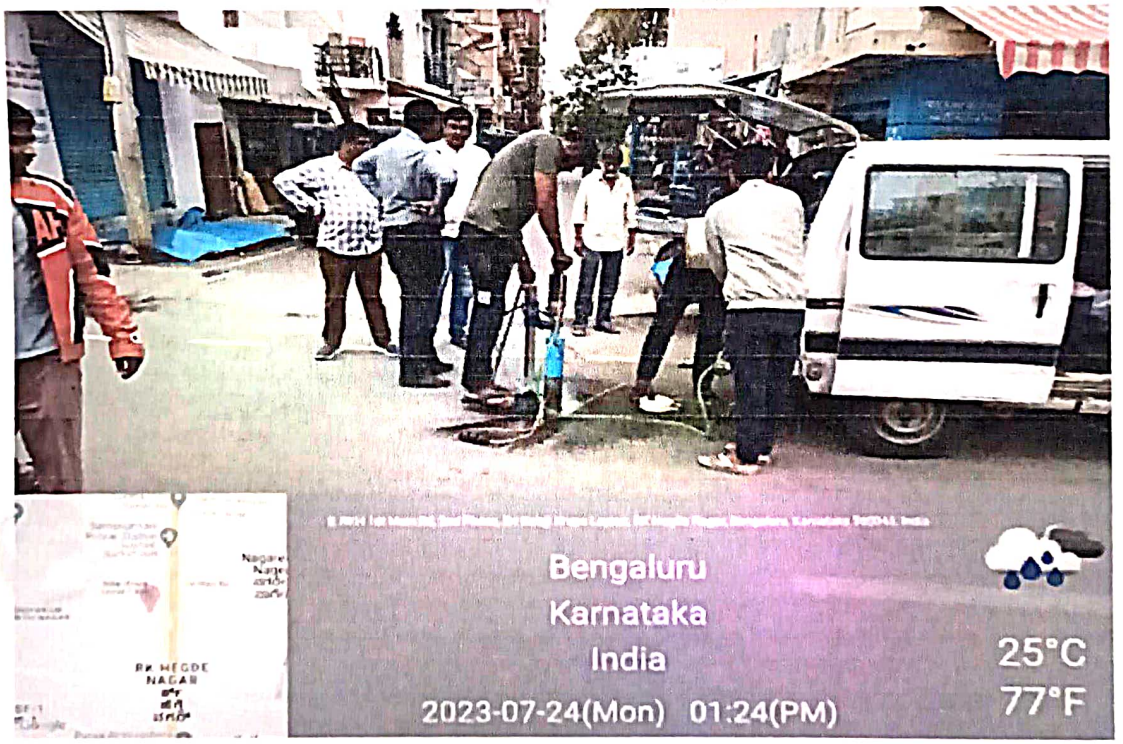
Bengaluru
Karnataka
India
2023-07-24(Mon) 12:45(PM)
27°C
81°F

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

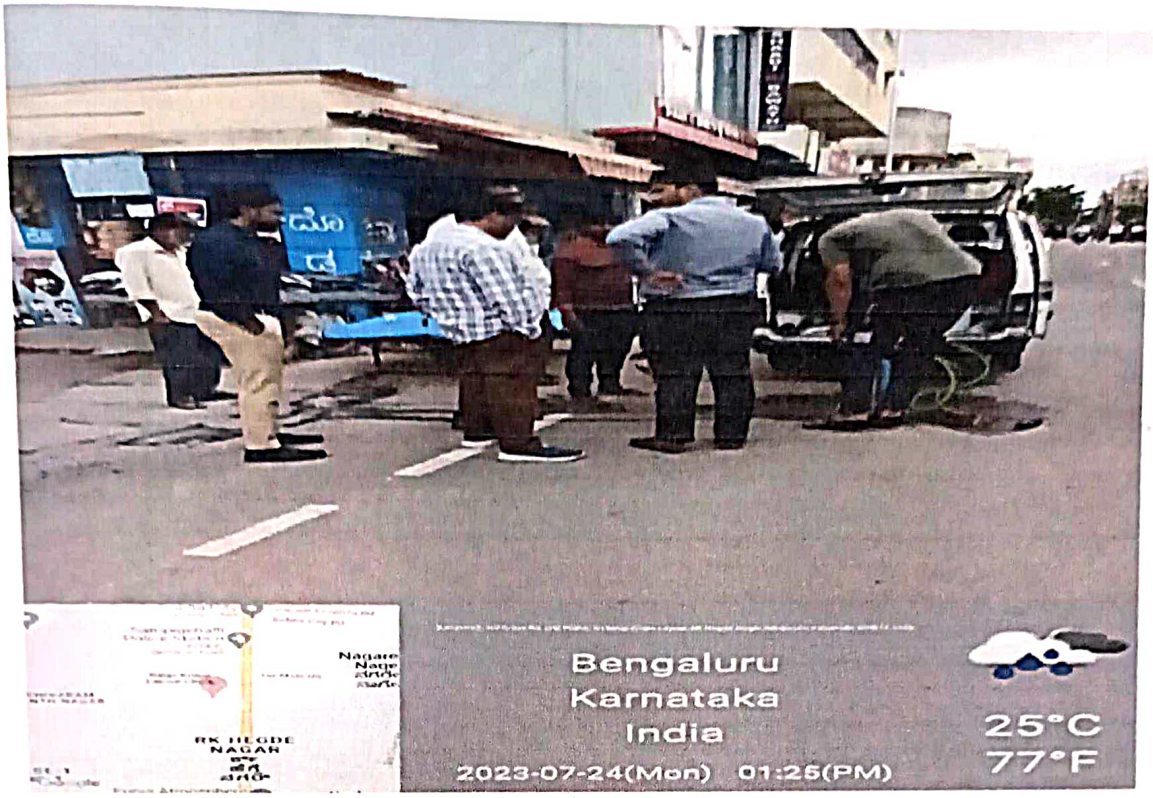


ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ ಉಪ-ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

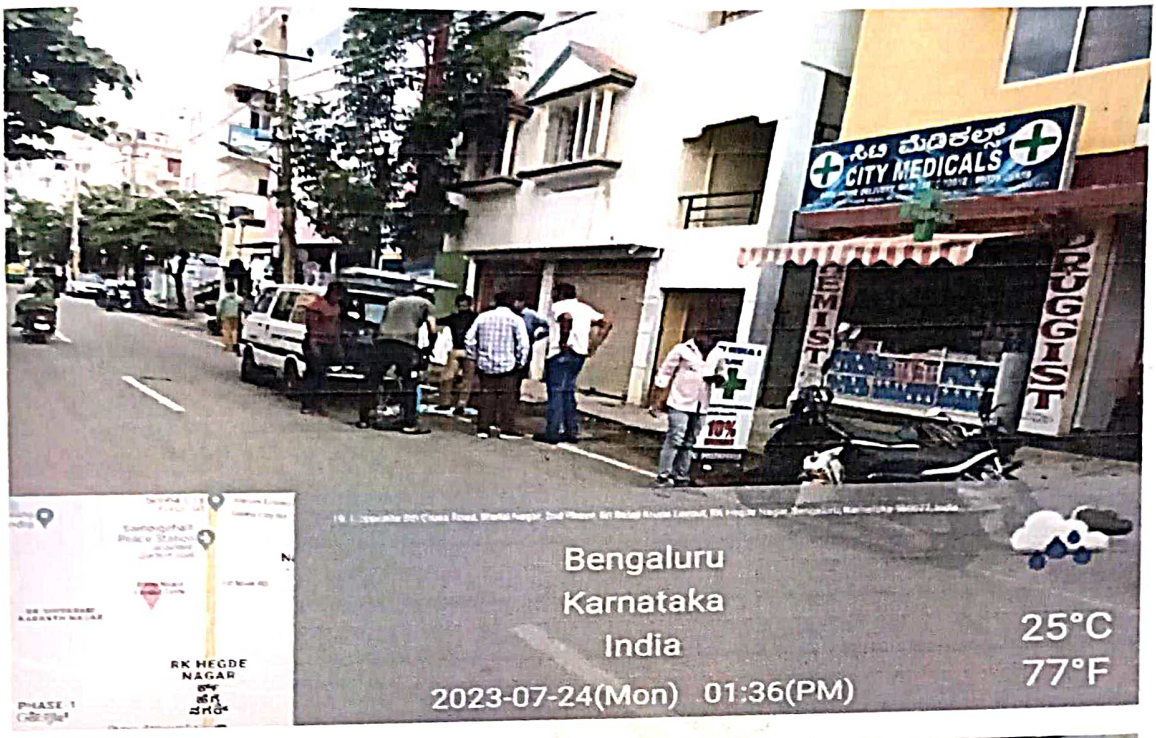


K.M. Hiremath 27/9/23 N.S. 27/9/23

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಉಪ-ವಿಭಾಗ –
ಮಹಾನಗರ ಪಾಲಿಕೆ
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



K.M. ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ – ಉಪ-ವಿಭಾಗ –
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಭರವಸೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಿ.ಮ. ಹೆಗ್ಡೆ 27/9/23

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗುಣಪರಿವೀಕ್ಷಣೆ/ಗುಣನಿಯಂತ್ರಣ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಗುಣಪರಿವೀಕ್ಷಣೆ/ಗುಣನಿಯಂತ್ರಣ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ